

To: Crossland, Ronnie[Crossland.Ronnie@epa.gov]
From: Foster, Althea
Sent: Fri 8/7/2015 3:04:56 AM
Subject: FW: Travel Times
[Intakes.xlsx](#)

Hope I'm not too late with this.

From: Restivo, Angela
Sent: Thursday, August 06, 2015 6:18 PM
To: Webster, Susan; Foster, Althea
Subject: FW: Travel Times

From: Kirkland, Robert
Sent: Thursday, August 06, 2015 6:13 PM
To: Crossland, Ronnie; Garcia, David; Kosfischer, Angel; Taylor, Patricia-A; Brown, Jamesr; Restivo, Angela; McCasland, Mark
Subject: Travel Times

The travel times for the Spill are estimated using 4 mph in Green. The calculated travel times I used are twice the 4 mph estimate (slower than the 4 mph estimate).

Robert Kirkland

Physical Scientist (Environmental)

Surface Water Center Coordinator

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214-665-6798

"Here be dragons" Unknown author. A phrase used to fill the whitespace on early maps.

From: Kirkland, Robert

Sent: Thursday, August 06, 2015 5:01 PM

To: Crossland, Ronnie; Garcia, David; Kosfisz, Angel; Taylor, Patricia-A; Brown, James; Restivo, Angela; McCasland, Mark

Cc: Kosfisz, Angel

Subject: Map of Intakes and Stream Gages

Here is the map of the intakes and gages on the Animas and San Juan. I will work up some travel times before I leave today, but NM or USGS may already have some idea. There is an application called ICWATERS co-developed by the EPA which should give a good estimate of concentration and instream flow time, but I do not currently have access to the software. HQ might be able to help in getting this if it is needed.

I will start working from home tomorrow about 6:30 am. My Cell number is Personal Phone/Ex. 6
Also Angel Kosfisz will be in the Office to assist with this as well if needed.

Thanks!

Robert Kirkland

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